B8Bm
REF. D.

BULLETIN

OF THE

PAN AMERICAN UNION

INDEX

VOL. LIV

JANUARY–JUNE

1922

SEVENTEENTH AND B STREETS NW., WASHINGTON, D.C., U.S.A.
CABLE ADDRESS *for* UNION *and* BULLETIN: "PAU," WASHINGTON

R
V.54

INDEX TO THE BULLETIN OF THE PAN AMERICAN UNION

Vol. LIV January to June, 1922 Nos. 1-6

[The Index to illustrations will be found on p. XVI.]

Page.

Agriculture, notes 66, 169, 281, 390, 608

ARGENTINA:

Alvear, Dr. Marcelo T. de, President-elect of 541

Argentine-Chilean stock exchanges, interchange of quotations between 618

Aviation—

Aeronautical school, new, established 412

Aviation Corps created fifth arm of the military service 620

Buenos Aires-Montevideo line 169, 402, 608

Military aviation school at Palomar dissolved 620

Brazilian Exposition, participation in 170

Cable, Italian-South American, projected 282

Cattle, number of, in 67

Children, labor law for, and women 80

Education—

Aeronautics, new school of 412

Buen Consejo School 87

Schools open during 1920 191

Territorial schools, new, created 412

University registration during 1920 411

Egg exports from 281

Finances—

Bond issue, internal, of 60,000,000 pesos 403

Budget for 1920 extended to 1921 294

Loan of $27,000,000 obtained in United States 617

Foreign trade—

Egg exports 281

Exports, principal, 1921 66

For 1921 386

Fruit, exports of 609

Fruit shipments to New York 282

Long-term sale of products 391

Meat, frozen, exports to Europe 608

National products, exports of 281

New articles in export trade 66

Pastoral products, exports of, in 1921 390

Goats, number of, in 67

Iguazu Falls power project 608

Immigration, regulation of 81

H Ry

ARGENTINA—Continued: Page.
Labor accidents in ... 417
Labor of women and children, law regulating ... 80
La Plata Channel to be cleared ... 169
Law Association, International, meeting date advanced ... 423
Legislation—
Labor law for women and children ... 80
Minimum wage law ... 80
Libraries, public, number of ... 417
Linseed production and exportation ... 390
Maize production and exportation ... 390
Population statistics ... 95
Railroads—
Bahia Blanca-Carmen de Patagones line completed ... 170
Transandine amalgamation deed signed ... 608
Transandine, new, from Salta to Antofagasta ... 571
Sheep, number of, in ... 67, 391
Steamship rates, passenger, reduced, United States-Argentina ... 610
Sugar production in 1921 ... 390
Telegraph lines, construction of, authorized ... 609
Textile industry, new ... 170
Treaties—
Bolivia, railway convention with ... 405
Colombia, arbitration with ... 406
Uruguay—Triangulation of Uruguay River ... 624
Vacation colonies for delicate children ... 416
Wheat production and exportation ... 390
Women, labor law for, and children ... 80
Wool industry, future of, in ... 281
Bache, Louise Franklin: The Junior Red Cross, the League of Children for Children ... 593
Baker, Henry D.: Little Tobago, Bird of Paradise Island ... 344
Baltimore, in the Pan American Conference ... 250
Bills of lading and "Hague Rules" ... 228
Bird of Paradise Island, Little Tobago ... 344
BOLIVIA:
Alcohol imports, law forbidding, upheld ... 296
Aviation—Woman qualifies as aviator ... 95
Finances—
Debt, public, September 30, 1921 ... 182
Receipts from export taxes, first six months, 1921 ... 618
Gold, tax on export of ... 67
Irrigation system near Oruro ... 403
Land grants made since 1907 ... 171
Legislation—
Alcohol imports, law forbidding, upheld ... 296
Immigration law, provisions of ... 186
Mining company organized ... 609
Petroleum—
Boring machinery received by Standard Oil Co ... 609
Development by American capital ... 67
Standard Oil Company acquires interests ... 170
Standard Oil Co. of Bolivia, statutes approved ... 283

BOLIVIA—Continued:

Railroads— Page.

Mileage, completed and projected 171

Pan American Railway in 123

Puerto Suarez-Beni River line proposed 391

Santa Cruz-Rio Grande line proposed 391

Villazon-Atocha line 283

Sewer system for Cochabamba 631

Sewer system for Oruro 403

Sewers in La Paz completed 631

Tariff—Gold, export tax on 67

Treaties—

Argentina, railway convention with 405

China—Peace and friendship treaty ratified 624

Colombia: Arbitration treaty 624

Hispanic-American Postal Convention ratified 624

Venezuela—Arbitration treaty 624

Book notes 101, 207, 319, 430, 538, 645

Borton, Francis S.: New art treasure from Mexico 162

Botanical and Geographical Parallels Between the African and South American Tropics 135

BRAZIL:

Achievements of a Century of Independence 433

Aerial lines to be established 610

Bandeirantes: Their Deeds and Their Descendants 456

Barbosa, Dr. Ruy, elected to International Court of Justice 95

Bridge between Rio and Nictheroy proposed 284

Cable rates, week-end 201

Caustic soda factory opened 610

Cement plant for Santa Catharina 392

Centennial grounds, lighting of, contract for 315

Centennial, preparations for the 363

Century of International Friendship 481

Child hygiene bureau created 632

Child welfare in 418

Congressional buildings, new, authorized 423

Corumba port improvements 392

Cotton cleaning and pressing plants 408

Cotton factories in, statistics 68

Dona Isabel of Bragança and Orleans 233

Drugs, poisonous, law relating to use of 81

Education—Primary schools, interstate conference of 192

Embassy, legation in Mexico raised to rank of 640

Federal capital, new, to be started 621

Finances—

Banking agencies, new 403

Banks, supervision of, expense of 294

Of Pernambuco 403

Foreign investment, field for 501

Foreign trade—Exports and imports, seven months, 1921 69

Fortaleza port improvements 392

Free zone in port of Rio established 187

Future of Brazil 496

BRAZIL—Continued:
Highway— Page.
Construction and promotion of.... 283
Federal aid for public.... 621
Homes for Government employees, bids asked for construction of.... 621
Legislation—
Drugs, law regulating use of.... 81
Federal aid for public roads.... 621
Free zone in Rio, decree establishing.... 187
Homes for Government employees, bids asked for construction of.... 621
National Sugar Exchange established.... 620
Sanitary convention, international, approved.... 197
Oil-nut resources, protection for.... 392
Parahyba port improvements.... 392
Pernambuco, finances of.... 403
Port improvements at Fortaleza, Parahyba, and Corumba.... 392
Program, Official, of Centennial.... 535
Public utilities concession in Maceio obtainable.... 392
Railroads—
Electrification of Paulista.... 283
Santa Catharina Road, lease and construction of.... 407
Sanitary convention, international, approved.... 197
Shipping—
German lines to resume service.... 67
Lloyd Brasileiro trans-Atlantic routes.... 284
Rates on Lloyd Brasileiro.... 285
Rates, passenger, reduced, United States–Brazil.... 610
Service, new, to Boston announced.... 285
Silk culture and manufacture in.... 609
Sugar—
Exchange, national, created.... 620
Valorization of.... 392
Telegraph line, Iguazu Falls-Catandubas-Porto Mendes.... 69
Treaties—
Esthonia, independence of, recognized.... 406
Italy, immigration convention with.... 185
Paraguay—Extradition treaty.... 624
United States—Postal Money Order Convention.... 406
Uruguay—Extradition treaty.... 625
Trip to Centennial Exposition.... 522
United States in Brazilian centennial celebration.... 514
Wireless stations.... 67
British Honduras.... 262
Calendars, evolution of, and how to improve them.... 543
Call, Arthur Deerin: Latin American countries and the Interparliamentary Union.... 38
Carr, A. D.: British Honduras.... 262
Cavalcanti, Dr. Amaro, death of.... 378
Céspedes, Dr. Carlos Manuel de: Cuba, our sister Republic.... 589
Chamber of commerce, Central American, organized in New York.... 292
CHILE:
Agriculture in.... 172
Alcohol, exports of, regulated.... 408
American embassy building, new, Santiago.... 599

CHILE—Continued: Page.
Argentine-Chilean stock exchange, interchange of quotations between... 618
Coasting-trade law... 408
Congress, Chilean Railway... 70
Diplomatic reorganization... 82
Education—
Agriculture, school of, to be built... 193
Attendance in primary schools... 87
Curricula, amendment of public school... 412
Industrial... 193
Magallanes, instruction in... 87
Railway university... 626
Salvador Sanfuentes School for Boys... 87
School savings plan... 626
Feminism, progress in... 632
Finances—
Budget for 1922... 404
Central Institute for Control of Exchange recommended... 404
Debt, public, of... 404
Investments, United States, in Chile... 404
Loan of $10,500,000 secured in United States... 78
Loans, new, authorized... 404
Santiago secures loan of $6,000,000 in United Statet... 618
Foreign trade—
Fruit exportation... 611
Nitrate exports, January–October, 1921... 286
Highway-construction law... 408
Hydroelectric development in... 285
Legislation—
Alcohol exports, decree regulating... 408
Coasting-trade law... 408
Diplomatic reorganization, decree for... 82
Highway-construction law... 408
Prohibition zones in coal-mining regions proposed... 187
Library system of... 187
Miners, welfare work among... 310
Nitrate—
Agreement between producers and buyers... 69
Exports, January–October, 1921... 286
Parasites, used to fight... 393
Producers, Government assistance for... 81
Production, January–October, 1921... 286
Supply on hand, October 31, 1921... 286
Packing plant at Puerto Montt... 172
Port works under construction... 393
Prohibition zones in coal-mining regions proposed... 187
Railroads—
Congress of railways... 70
Construction of, authorization for... 393
Electrification of Santiago-Valparaiso line... 70
Transandine amalgation deed signed... 608
Transandine lines, data on... 173
Transandine, New, From Salta to Antofagasta... 571
Valparaiso-Viña del Mar electric line... 393

	Page.
CHILE—Continued:	
Social welfare department created by nitrate producers	418
Tacna-Arica conference, Chilean delegates to	640
Tacna-Arica conference, projected	217
Treaties—	
Arms and Munitions Conventions ratified	186
Colombia—Convention regarding academic degrees	406
Sweden, arbitration with	86
Wireless concession granted German firm	173
COLOMBIA:	
Aviation—	
Aerial mail service	393
Commercial, report of German-Colombian company	611
Census of, 1918	315
Cigarette factory in Bucaramanga	287
Cocos Islands, administration of	188
Coffee, exports to United States, 1920–21	174
Education, primary instruction in, statistics	88
Finances—	
Bank, Government, bill to create	409
Debt, internal, of	78
Loan from English firm for £80,000	294
Silver coins, 3,000,000 coined	182
Treasury bonds authorized	618
Foreign trade—	
Coffee exports to United States, 1920–21	174
Exports and imports, first half 1921, totals	611
Highways—Chusaca-Tequendama Falls Road to be reconstructed	611
Hookworm, treatment for	633
Hospital, modern, in Barranquilla	311
Insurance, compulsory collective, law for	188
Legislation—	
Government bank, bill to create	409
Insurance, compulsory collective, law for	188
Magdalena River, channel through bar at mouth of	71
Mail service, aerial	393
Malpelo Islands, administration of	188
"Maria," home of	254
Ospina, General Pedro Nel, president-elect of	325
Petroleum, operations in	287
Railroads—	
Cucuta-Magdalena River, funds for appropriated	296
Equipment, purchase of	394
Shipping—German steamship service renewed	174
Sulphate of soda in	71
Treaties—	
Argentina, arbitration with	406
Bolivia—Arbitration treaty	624
Chile—Convention regarding academic degrees	406
United States—Ratified	186
Woolen factory established in Bogota	287
Commerce: Latin American foreign trade in 1920: General survey	42
Commerce, notes	66, 169, 281, 390, 608
Conference, Pan American, of women	35, 109

Page.
Congress of Child Welfare, Third Pan American 365
Congress, Pan American, of students 57
Consular reports, subject matter of 99, 205, 317, 428, 643
COSTA RICA:
Bridge over Rio del Oro 394
Cartago, as a health resort 116
Education—Scholarship students arrive in Mexico City 627
Electric plant for Alajuela 287
Finances—Customs revenue, six months, 1921 71
Highways—
Construction of, in Puntarenas 71
Law for construction and maintenance of 82
Upala to Nicaraguan frontier, road constructed 287
Insurance, fire, decree governing issuance of policies 296
Legislation—
Fire-insurance policies, decree governing issuance of 296
Good roads law 82
Montezuma mines 394
Petroleum concession 72
Railroad, Pacific, earnings of 174
Treaties—
France—Postal agreement changed 406
United States—Extradition treaty 625
Cotsworth, Moses B.: Evolution of calendars and how to improve them 543
Cross, Dr. Howard: A martyr to science 279
CUBA:
Astronomical observatory, New National 164
Aviation—Habana-Key West service 175
Cotton, importation of certain, prohibited 395
Education—
Diplomatic and Consular Service, course in 89
Torre, Dr. Carlos de la, appointed president of National University 193
Wireless telegraphy, course in 89, 413
Finances—
Budget for Province of Habana 618
Debt, internal, amortization of 621
Interest paid on $10,000,000 American Government loan 182
Loan of $5,000,000 by J. P. Morgan & Co 404
Treasury receipts, revenues and taxes 183
Foodstuffs, regulation of price of 82
Foreign trade: Foodstuffs imported, eight months, 1921 73
Legations, authorized expenditures for 409
Legislation—Foodstuffs, regulation of price of 82
Medical Congress, Sixth Latin American, November 19–26, 1922 641
Our Sister Republic—Address by Cuban minister to United States 589
Public works, 75 per cent of employees on, required to be Cubans 622
Railroads—
Matanzas-Hershey line opened 395
United Railroads of Habana, earnings 174
Shipping service to Canada, new line 72
Sugar—
Crop, estimated 72
Supply of 72

Page.

CUBA—Continued:
- Sugar Finance Commission, certain powers taken away 297
- Telephone system in 395

DOMINICAN REPUBLIC:
- Bankruptcy law amended 622
- Bills of exchange, law governing 189
- Delinquent minors, care of 622
- Finances—Debt, foreign, February 20, 1922 618
- Highway construction in 73, 612
- Insolvency law of 410
- Legislation—
  - Bankruptcy law amended 622
  - Bills of exchange, law governing 189
  - Insolvency law 410
  - Loan law 83
  - Sales tax law put into effect 622
  - Surtaxes, order authorizing remission 297
  - Water distribution in arid regions, law of, amended 297
- Leprosarium at Nigua 633
- Loans, law regulating 83
- Parcel-post convention ratified 407
- Railroads—Concession to sugar company to build line 175
- Sales tax law put into force 622
- Steamship freight rates to New York reduced 175
- Sugar centrals, operation and production 612
- Surtaxes, order authorizing remission of 297
- Telephone line, authorization for 395
- Water distribution in arid regions, law of, amended 297

Dona Isabel of Bragança and Orleans, ex-Princess Imperial of Brazil .. 233

Economic notes 80, 182, 294, 403, 617

ECUADOR:
- Accident, labor, law 83
- Alcoholic liquors, Sunday sale of, prohibited 83
- Cacao—
  - Export tax on 176
  - Price regulation, efforts at 613
- Education—
  - Agricultural instruction in schools 194
  - German teachers engaged 413
  - Name and location of secondary and advanced schools 306
  - Statistics 194
  - Students' Congress, Fourth, of Gran Colombia 305
  - System of 305
  - Women in universities 627
- Finances—
  - Customs revenue, six months, 1921 74
  - Income tax, decree imposing 295
  - Taxes, new national defense, created 190
- Foodstuffs, exportation of 176
- Foreign trade—
  - Exports, principal, 1920 612
  - Foodstuffs, exportation of 176
  - Imports and exports for 1919 and 1920, totals 73
  - Market, Ecuadorean, for foreign products 395

ECUADOR—Continued: Page.
Highways—Esmeraldas-Santo Domingo Road to be built ... 176
Income-tax decree ... 295
Labor, hours of ... 189
Legislation—
Alcoholic liquors, Sunday sale of, prohibited ... 83
Hours of labor ... 189
Hydrocarbon deposits law ... 297
Labor accident law ... 83
Taxes, new national defense, created ... 190
Petroleum law ... 297
Railroads—Guayaquil-Babahoyo line contracted for ... 288
Treaties—
Great Britain—Postal money order convention put into effect ... 407
Venezuela, arbitration with ... 86
Universal Postal Convention approved ... 186
Yellow fever, Guayaquil free from ... 312
Education, notes on ... 87, 191, 304, 411, 626
Education, section of, report on the ... 244
Evolution of calendars and how to improve them ... 543
Faulty food in relation to gastrointestinal disorders ... 328
Feminist movement in Latin America ... 353
Financial notes ... 80, 182, 294, 403, 617
Foreign trade:
"Hague Rules" and bills of lading ... 228
Hague Rules, report on the, 1921 ... 401
Latin American, in 1920: General survey ... 42
Significance of the trade decline of 1921 ... 380
Theft and pilferage in the United States ... 220
Galvão Bueno, Americo de: The Bandeirantes: Their deeds and their descendants ... 456
Gastrointestinal disorders, faulty food in relation to ... 328
General notes ... 95, 200, 315, 422, 640
Geographical and botanical parallels between the African and South American tropics ... 135
Gillis, Frederick J.: Pan American Congress of Students ... 57
Gould, W. W.: Cartago, Costa Rica, as a health resort ... 116
Governing board, Pan American Union ... Inside front cover, each issue.
GUATEMALA:
Bananas—
Exports from Puerto Barrios during 1920 ... 180
Growing of, on Pacific coast ... 613
Chicle, concession for extraction of ... 613
Education—
Agriculture, school of, curriculum of ... 195
Commercial school in Guatemala City ... 308
Manual training in schools ... 91
School of Pharmacy and Natural Science reorganized ... 414
Finances—
Budget changes ... 619
Debt, internal, liquidation of ... 85
Monetary guaranty bureau, law creating ... 85
Report first six months of 1921 ... 184

	Page.
GUATEMALA—Continued:	
Jute bag factory established	396
Legislation—Monetary guaranty bureau, law creating	85
Mosquito-destroying plant received	203
Postal rate, increase in	292
Railroads—Schedule of international	396
Retalhuleu Province, report of	292
Telegraph service to United States	76
Vital statistics	425
"Hague Rules" and bills of lading	228
Hague Rules, report on the, 1921	401
HAITI:	
Education—Secondary examinations, program of	89
Finances—	
Receipts, government	405
Revenue, internal, collected	79
Taxes, internal, collected	619
Shipping—	
German service, renewal of	396
New York-Haiti service	396
Home of "Maria"	254
HONDURAS:	
Aviation school, aeroplanes for	414
Bridge over Río Celgualpa	180
Clothing factory established in San Pedro Sula	614
Education—	
High school in Danlí proposed	414
New schools planned	308
Electric light system in Comayagua	180
Finances—	
Customs revenues, 1921	619
Liquor revenues, 1921	619
Highway construction in	613
Laborers' association formed in Chocuteca	313
Library for workmen opened in Tegucigalpa	200
Sample products, exhibit of, in chamber of commerce	292
Tile factory established in San Pedro Sula	614
Honduras, British	262
Heubner, S. S.: Theft and pilferage in the United States export and import trade	220
Industry, notes	66, 169, 281, 390, 608
Inman, Samuel Guy: The feminist movement in Latin America	353
Interparliamentary Union, Latin American countries and the	38
Junior Red Cross: The league of children for children	593
Kerr, George A.: Quebracho forests of South America	9
Latin American countries and the Interparliamentary Union	38
Legislation, notes	80, 186, 296, 407, 620
Little Tobago, Bird of Paradise Island	344
Lobo, Helio: A century of international friendship	481
Lyster, Theodore C.: Medical diplomacy	375
Mail, domestic rates on Pan American	275
Marchant, Langworthy:	
Achievements of a century of Brazilian independence	433
Dona Isabel of Bragança and Orleans, Ex-Princess Imperial of Brazil	233

Page.
"Maria," Home of 254
McCarrison, Robert: Faulty food in relation to gastrointestinal disorders 328
McMahon, Thomas J.: Nauru Island, phosphate treasure island of the South Pacific 600
Medical diplomacy 375
Mell, C. D: Little known but commercially important trees of the West Indies. 149
Metric measures ..... Back cover, each issue.
MEXICO:
Art treasure, new, from 162
Aviation—Concession for mail, passenger and freight service 75
Bonds, Government, decrees regarding issuance and payment of 183
Cotton spinning and weaving in 74
Education—
Appropriation for 194
Plan of, for 1922 90
Progress in 306
Railway school, creation of 414
University of Mexico, summer school courses in the 571
Finances—
Bonds, Government, decrees regarding issuance and payment of 183
Budget for 1922 183
Claims, foreign, against Government 79
Revenue from alcohol and spirituous liquors 79
Floating dock at Vera Cruz repaired 397
Foreign trade—
Mineral exports, January–June, 1921 74
Petroleum exports, January–June, 1921 74
Henequen industry, regulation of 290
Highways—
Construction of 289, 614
Construction of, in north 398
Insurance, National Railways to establish industrial 93
Legislation—Bonds, Government, decrees regarding issuance and payment of 183
Maps, geological, of Mexico, completed 615
Medicine, practice of, in Sonora 298
Mineral production and exports 74
Passports, abolition of, between Mexico and United States 614
Petroleum—
Exports of, January–June, 1921 74
Exports of, December, 1921 289
Production in 1921 397
Production of wells 289
Playground in Mexico City 313
Postal statistics 74
Railroads—
Construction of, in Chihuahua 398
Improvements in 75
Repairs, expenditures in construction and 288
Seed sterilization plant in Guaymas 74
Shipping—
Salina Cruz-Vancouver line started 614
Service, new, between Galveston and Mexican ports 178

MEXICO—Continued:
Shipping—Continued. Page.
Service to United States and Central America, new 75
West coast boats to California, new service 288
Sonora, practice of medicine in 298
Tampico, increasing importance of, as port 397
Telegraph statistics 74
Workshops, free, establishment of 634
Monetary units, values of, of Pan American countries ..... Back cover, each issue.
Nauru Island, Phosphate Treasure Island of the South Pacific 600
NICARAGUA:
Cattle, regulations governing export and slaughter of 75
Coffee trees, law to protect 178
Electric light plants—
In Juigalpa 398
In Leon 178
Fiber, yucca baccata 398
Public health in 347
Railroads—Mileage and routes 75
Tariff—Addition to duty-free list 290
Wireless—
Apparatus for station given by Mexico received 615
Concession granted 399
Oliveira Lima, Dr. Manoel de: The future of Brazil 496
Ospina, General Pedro Nel, President-elect of Colombia 325
PANAMA:
Agricultural development of, syndicate for 399
Clinic, free, at Colon 635
Education—Vocational school, data on 195
Ferry across Miraflores Lake 399
Finances—City revenues, decree covering collection of 84
Highways—
Construction of, plans for 615
Mensabe-Las Tables Road 399
Legislation—City revenues, decree covering collection of 84
Rice, import tax on 615
Timber operations in 179
Pan American Conference of Women 35, 109
Pan American Conference of Women, Baltimore in the 250
Pan American Conference of Women, Delegates to 350
Pan American Conference of Women, Latin American delegates to 637
Pan American Congress of Child Welfare, Third 365
Pan American Congress of Students 57
Pan American Railway in Bolivia 123
PARAGUAY:
Bills of Lading, regulations covering 410
Bridges, construction of 615
Cable, under-river, inaugurated 400
Cane industry in 291
Commercial Travelers' Convention with United States 303
Consular manifests, regulations covering 410
Customs bonds, deposit of 291

PARAGUAY—Continued:
Education— Page.
Military school for apprentices 301
Paraguayan Institute 628
Regional Education Council, law on 300
Teachers, classification and tenure of 299
Vocational school for women 415
Finances—
Budget for 1921–22 79
Revenues and expenditures 183
Taxes on merchandise 179
Foreign trade—
Exports and imports, 1920 and 1921 615
Exports in November, 1921 291
Imports in November, 1921 291
Highway construction in 615
Hygiene, progress in 635
Import duties, removal of, on certain articles 84
Legislation—
Live stock, tax on 84
Regional Educational Council, law on 300
Teachers, classification and tenure of 299
Live stock, tax on 84
Parcel post, imports by 410
Property, distribution of, in 399
Sanitation, progress in 635
Tramways, changes in law for construction of 179
Treaties—
Brazil—Extradition treaty 624
Japan, commercial treaty with 86
United States, commercial travelers' convention with 303
PERU:
Alcohol tax recommended be increased 184
Aqueduct, concrete, constructed 400
Cattle imports, rules on 85
Education—
Academic degrees, commission created to grant 415
Law on, new 1
Popular education in 307
Popular university begins second year; objects of 90
Finances—
Budget for 1922 provisionally sanctioned 619
Loan for construction of sewer system 79
Silver alloy coinage, issue of, authorized 622
Highways—
Huánuco–Puerto Mario Road proposed 291
Lima-Callao Road to be paved with asphalt 291
Lima-Yangas Road opened 616
Legislation—
Cattle imports, rules on 85
Education law, new 1
Petroleum law of 410
Lighthouses, automatic, installed 400

PERU—Continued. Page.
Margarine, production of, from cottonseed oil 401
Petroleum law of 410
Railroads—
Chiclayo-Lambayeque line approved 180
Peruvian railways 584
Shoes, manufacture of 616
Tacna-Arica conference, Peruvian delegates to 642
Tacna-Arica conference, projected 217
Textile fibers, development of plants for 291
Popenoe, Wilson: The home of "Maria" 254
Postal rates, domestic, on Pan American mail 275
Public health in Nicaragua 347
Public instruction, notes on 87, 191, 304, 411, 626
Quebracho forests of South America 9
Railway, new Transandine, from Salta to Antofagasta 571
Red Cross, Junior, the league of children for children 593
Reid, William A.: Trip to the Brazilian Centennial Exposition 522
REPUBLIC OF CENTRAL AMERICA (*see also* Guatemala, Honduras, and Salvador):
Federal district, administration of 191
Monetary unit of 184
National insignia 86
Roosevelt, Kermit: Brazil as a field for foreign investment 501
Salomon, Oscar V.: Peruvian railways 584
SALVADOR:
Auto service between Santa Ana and Ahuachapán resumed 292
Clinics, free, statistics of 626
Education—
Dressmaking school opened 91
National University, women in the 196
New school in La Unión 416
Principals, qualifications required of 91
Public instruction in 1921 628
Finances—
Bank, municipal, proposed for San Salvador 184
Expenditures for 1921 620
Revenues for 1921 620
Highways—
Construction of, in 292
Salvador-Michapa Road repaired 77
Hookworm, treatment for 203
Hospital accommodations, new, in La Libertad and Santa Ana 421
Libraries, municipal, books added to 314
Library, children's opened in San Salvador 94
Railroads—Cojutepeque-San Salvador link completed 616
Vaccination bureau—
Organization of 97
Work of 421
Sampaio, Sebastião: The United States in the Brazilian Centennial celebration 514
Sanitary cooperation, value of, among nations 132
Sea fight, a famous, in Pan American waters 366
Social progress, notes on 92, 197, 309, 416, 631
Tacna-Arica conference, projected 217

Page.
Tejada Sorzano, Carlos: Pan American Railway in Bolivia 123
Theft and pilferage in the United States export and import trade 220
Torres, Arturo: Peru's new education law 1
Treaties, international, notes on 86, 185, 303, 405, 624
Trees, little known but commercially important, of the West Indies ... 149
UNITED STATES:
Brazilian Centennial Celebration, United States in 514
Commercial Travelers' Convention with Paraguay 303
Embassy building, new, Santiago, Chile 599
Foreign Trade Convention, Philadelphia 401
Hague Rules, report on the, 1921 401
Treaties—
Costa Rica—Extradition treaty 625
Venezuela—Extradition treaty 625
URUGUAY:
Airplane service, Montevideo-Buenos Aires 169, 402, 608
Amusement censorship created 411
Day-of-rest law, regulation of 623
Drugs, regulation governing sale of 302
Education—Industrial schools, regulation of 196
Finances—
Bank emission 80
Budget extended 296
Disposition of $7,500,000 loan 184
Foreign trade—
Live-stock imports, decree regulating 181
Wool exports 77
Highways—
Authorized in Department of Minas 616
La Tablada-El Cerro Road to be built 293
Immigration statistics 642
Industries, national, law to promote 302
La Palma port works to be improved 293
Legislation—
Day of rest law, regulation of 623
Drugs, regulation governing sale of 302
Industries, law to promote national 302
Live-stock imports, decree regulating 181
Port works at La Palma to be improved 293
Port works at Montevideo, appropriations for 402
Prohibition in army 623
Railroads—
Central Uruguay, report of 181
Guarantees, payment of 181
Real estate transfers, value of 620
Steamship rates, passenger, reduced, United States-Uruguay 610
Steel plant established 293
Treaties—
Argentina—Triangulation of Uruguay River 624
Brazil—Extradition treaty 625
Wool, exports of 77
Vaux, Patrick: A famous sea fight in Pan American waters 366

VENEZUELA: Page.
Agriculturists, Congress of ... 277
Bridge constructed over Tocuyo River ... 402
Coffee shipments from Maracaibo ... 182
Education—
Commercial school created in Barquisimeto ... 416
Law, provisions of new, on ... 303
Finances—
Debt, public, of ... 405
Silver bolivars, 6,000,000, to be coined ... 296
Foreign trade—
Coffee exports, 1921 ... 617
Coffee shipments from Maracaibo ... 182
Live-stock exports, 10 months of 1921 ... 402
Highways—
Altagracia-Mene Road opened ... 617
Ciudad Bolivar-Cabimas-Lagunilla Road proposed ... 293
Construction of, in ... 402
Hotel, new, in Caracas ... 427
Legislation—
Development of natural products regulated ... 623
Education law, provisions of new ... 303
Natural products, development of, regulated ... 623
Petroleum concession ... 78
Railroads, mileage of ... 77
Silver bolivars, 6,000,000 to be coined ... 296
Telegraph station at El Amparo ... 293
Telephone line between Urdaneta and Federación authorized ... 78
Treaties—
Bolivia—Arbitration treaty ... 624
Ecuador—Arbitration ... 86
Italy—Claims convention ... 625
Permanent Court of International Justice, resolution establishing, ratified ... 625
United States—Extradition treaty ... 625
Wireless Convention, International, approval of ... 303
Verner, S. P.: Certain geographical and botanical parallels between the African and South American Tropics ... 135
Wells, Wm. C.: Significance of the trade decline of 1921 ... 380
White, J. H.: Value of sanitary cooperation among nations ... 132
Yánes, Francisco J.: Report on the section of education ... 244

INDEX TO ILLUSTRATIONS.

Abbott, Miss Grace, Chief, Children's Bureau, United States Department of Labor ... 113
Abbott, Miss Julia, United States Bureau of Education ... 113
AFRICA:
Central, clearing for a railway line in ... 146
Historic Stanley Baobab at Boma ... 147

Page.
American delegates to Interparliamentary Union..... 39
Anderson, Miss Mary, Chief, Women's Bureau, United States Department of Labor..... 113
Andes, central, slope of the..... 141
Angamos, battle of:
Plan showing positions of battleships..... 371
Scene of the..... 369
ARGENTINA:
Alvear, Dr. Marcelo T. de, President-elect of.....Frontispiece, June.
Cervantes theater, Buenos Aires—
Auditorium of, from stage..... 158
Ballroom of..... 161
Box office of..... 159
Exterior view of..... 158
Refreshment room of..... 160
Stairway, principal, of..... 159
Vestibule which opens on automobile entrance..... 160
Law faculty, University of Buenos Aires, new building for the..... 388
Map showing projected railway from Salta to Antofagasta..... 581
Policeman, Buenos Aires, of polygot squad..... 167
Bard, Dr. Harry Erwin..... 3
BOLIVIA:
Atocha-La Quiaca Railway, map showing..... 122
Atocha station..... 124
Bridge spanning the La Quiaca River..... 128
Canyon of the Río Tupiza..... 125
Escoriani, highest point to be reached by Atocha-La Quíaca Railway..... 127
Locomotive, type of, used on Bolivian railways..... 129
Valley of the Río Suipacha..... 126
Viaduct over the Matanzillas..... 128
BRAZIL:
Amazon River—
Caving banks of the..... 144
Typical view on..... 143
Bahia, showing elevators..... 525
Barbosa, Councillor Ruy..... 449
Belem, Pará, theatre at..... 503
Bello Horizonte, executive mansion at..... 495
Bonifacio de Andrada e Silva, José..... 440
Botelho de Magalhaes, Gen. Benjamin Constant, founder of the Republic. 447
Cochrane de Alencar, Dr. Augusto, ambassador to the United States..... 454
Coffee—
Drying..... 517
Loading of, at Santos..... 519
Picking berries..... 516
Delegates to Third Pan American Conference, Rio de Janeiro..... 484
Diamond convoy from mines of..... 473
Dom John VI, King of Portugal, Brazil and Algarves..... 434
Dom Pedro Primeiro..... 439
Dom Pedro Segundo, the Magnanimous..... 442
Dona Isabel, Princess Imperial..... 234, 445
Dona Thereza Christina..... 443
Embassy Building in Washington..... 452

	Page.
BRAZIL—Continued.	
Exposition, general plan of the	535
Galvão Bueno, Americo, second secretary of embassy, Washington	455
Graca Aranha, Capt. Heraclito da, naval attaché, Washington	455
Guanabara Palace, Rio de Janeiro	239
Lobo, Helio, consul general in New York	481
Manaos—	
Avenida Eduardo Ribeiro	509
Floating docks at	506
Map comparing area of United States with that of	515
Map, economic, of	493
Oliveira Lima, Dr. Manoel de, former minister plenipotentiary	496
Pessoa, Dr. Epitacio, president of	Frontispiece, May.
Piratininga, on the way to	461
Porto Alegre, capital of Rio Grande do Sul	511
Recife (Pernambuco), views of	523
Ricken, Commander Guilherme, assistant naval attaché, Washington	455
Rio de Janeiro—	
Academy of Letters, home of the	498
Aerial railway to the Sugar Loaf	527
Avenida Niemeyer and Gavea Mountain	513
Avenida Rio Branco	529
Carioca aqueduct	533
General view of the city, including Botafogo Bay	491
Historic and Geographic Institute, home of the	498
Hotel Central	535
Institute of Lawyers, home of the	498
Marechal Floriano Square	451
National Academy of Medicine, home of the	498
Palace of São Christovao	237
Port works in 1916	502
Public Library at	499
Rubber—	
Finished ball of	505
Industry, on the Amazon	504
Sampaio, Sebastião, commercial attaché, Washington	455
Santos Dumont, Alberto, inventor of the dirigible balloon	486
São Paulo—	
Cabúcu Dam	510
Luz Railway station	531
Power plant of	494
Sugar mill in	521
Ypiranga Museum	488
Silva Rondon, Gen. Candido Marianno da	479
Silva Xavier, Joaquin José da, the Tiradentes	467
Sousa Leão Gracie, Samuel, first secretary of embassy, Washington	455
Sousa Leão, Joaquim de, second secretary of embassy, Washington	455
Statue to be presented to Brazil by citizens of the United States	482
Sugar mill in	521
Tiradentes, the, Joaquim José da Silva Xavier	467
Ypiranga, cry of	435
BRITISH HONDURAS:	
Belize, water front of	264
Mahogany logs, unloading, in	267

British Honduras—Continued. Page.
Map showing situation of 262
Native house in interior of 269
Undergrowth in lowlands of 271
Calendars, evolution of:
"Amplitude" diagram of seasonable sunrise points 548
Aztec calendar stone 561
Druidical "arrows" at Aldborough near York, England 550
Dyak calendar makers of Sarawak, Borneo 557
Egyptian calendar, ancient, of 12 months, shown by signs of the Zodiac 563
Five-bundles calendar used by American Indians 546
Four quarters of the moon 543
Growth of early ideas of length of year 547
Jacob's sunrise observatory 552
Monolith at Stonehenge 551
Month, standard: remedy for calendar defects 569
Months, sketch showing defects in present method of recording 567
Moon sticks, Fiji Islands 544
Obelisk, Delhi, India 556
Obelisk in center of St. Peter's Square, Rome 554
Priest of Carthage locating sunrise point 549
Pyramid and sphinx area, Egyptian birthplace of European calendars 553
Pyramid at Medum—
Egypt's first 556
Section of oldest 556
Pyramid, "blunted," of Dashur 556
Pyramid emblem 556
Pyramid, Great, "shadow floor" of 558
Pyramids, Gizeh, near Cairo 556
Pyramid's secret shadow rods disclose its calendar-recording purpose 558
Spring and summer maps of star groups in celestial sphere 566
Zodiacal clock in the heavens—Basis of the calendar 560
Catt, Mrs. Carrie Chapman, president International Woman Suffrage Alliance 111
Central American Republic, special commission in Washington from 65
Chile:
American Embassy building in Santiago 598
Latorre, Admiral Juan José 367
Map showing projected railway from Salta to Antofagasta 581
Colindres, Dr. Vicente M., member Central American Commission to Washington 65
Collier, Col. D. C., commissioner general from United States to Brazil's Centenary Exposition 131
Colombia:
Coat of arms of 327
Foresters crossing rapid stream of Magdalena system 139
"Maria"—
Bath of 260
Cauca Valley, looking across, from home of 255
Entrance to "Hacienda de Abajo" 259
Hacienda around which centers plot of 256
Oratorio, entrance to the, of the home 258
Ospina, Gen. Pedro Nel, President-elect of ..... Frontispiece, April.
Cook, Hon. Willis C., minister of the United States to Venezuela 60

COSTA RICA: Page.
Aguas Calientes, bathhouse at 118
Cartago—
Mercado of 117
Mercado of, exterior view 117
Medal struck in honor of centenary 121
Mount Irazú, crater of 120
Cottrell, Hon. Jesse S., minister of the United States to Nicaragua 64
Cross, Dr. Howard:
Funeral cortègé 279
Remains of, lying in state 278
CUBA:
Céspedes, Dr. Carlos Manuel de, minister to United States 590
National Astronomical Observatory—
Dome of, showing telescope 165
General view of 165
Marble stairway of 166
Tractor, United States, on plantation in 389
Davis, Hon. Roy Tasco, minister of the United States to Guatemala 62
Dock, modern, scenes on 227, 232
Ellicott, Mrs. Charles E., president Maryland League of Women Voters 351
Fonda or tavern in the Chaco 12
Grau, Admiral Miguel 367
GUATEMALA:
Arch commemorating Central American independence, gift of Chinese colony ..... Cover, January.
Guatemala City—
General view of 57
Plaza in 58
HAITI:
Horse-radish tree in 153
Walnut tree, East Indian, in 157
Interparliamentary Union, American delegates to 39
Junior Red Cross:
League of Children for Children 596–597
March of the, frieze 594–595
Latorre, Admiral Juan José 367
Lima, Dr. Francisco, member Central American Commission to Washington 65
'Limitation of Armament Conference, principals at ..... Frontispiece, January.
LITTLE TOBAGO ISLAND:
Gartapple tree, fruit of the native 347
General view of 345
Mammee apple tree:
An old 150
Fruit of the 152
Pulp and one seed of 152
Matos, Dr. José, member Central American Commission to Washington 65
MEXICO:
Altar, art treasure from 163
Cathedral and sacristy, Mexico City 571
Cathedral at Morelia, Michoacán 576
Church at Santa Mónica, Guadalajara, Jalisco 578
Church of San José, Puebla 577
Convent of Tepozo Tlan, State of Mexico 573

MEXICO—Continued. Page.
El Carmen Church, San Angel, D. F. 573
Ozumba, Mexico State 575
Patio of Government Palace, Querétaro 576
Pyramid of the Sun, Teotihuacan 574
School of Mines, Mexico City 572
Morales, Hon. Franklin E., minister of the United States to Honduras 130
Nauru Island:
Business street of settlement 603
King Oweida, of 602
Lagoon in 607
Natives working in phosphate deposits of 601
Police, native, of 604
Railway crossing 606
Railway line 605
Residential street of settlement 603
Ospina, Gen. Pedro Nel, President-elect of Colombia Frontispiece, April.
Pan America, steamship:
Bedrooms, one of the de luxe, of 587
Card room, corner of 588
Children's play room of 588
Dining room of 587
General view of 586
Social hall, portion of 586
Pan American Conference of Women, leaders in round table conferences 113
Park, Mrs. Maud Wood, president, National League of Women Voters 36
Parker, Dr. Valeria, executive secretary, Interdepartmental Social Hygiene Board 113
PERU:
Grau, Admiral Miguel 367
Grau monument, Callao 373
President of, with United States special mission to centennial celebration Frontispiece, February.
San Martin monument, scenes at dedication of in Lima 280
Soda water fountain in Andean city of 168
Pessoa, Dr. Epitacio, President of Brazil Frontispiece, May.
Quebracho:
Assembling point for logs 21
Bark of the tree 10
Carts for conveying logs 18
Extract factory, general view 27
Extract factory, interior view of 31
Loading logs on a local railway 23
Logs gathered in the forest 14
Sawmill in the forest 16
Shipping logs, wharf scene 33
Train carrying Indian laborers 25
Tree, general view 10
Ramer, Hon. John E., minister of the United States to Nicaragua 63
San Martin, portrait of 387
South, Hon. John Glover, minister of the United States to Panama 61
Statute to be presented to Brazil by citizens of the United States 482
Tavern or fonda in the Chaco 12

Page.
Transandine Railway, Salta-Antofagasta, map showing projected..... 581
UNITED STATES:
Baltimore, Md., Mount Royal Avenue..... 251
Baltimore, Md., Mount Vernon Place and the Washington Monument.....Frontispiece, March.
Embassy building in Santiago, Chile..... 598
VENEZUELA:
Agriculturalists' congress—
Directors of..... 276
Medal commemorating..... 277
Cunucunuma River, tributary of the Orinoco..... 137
Forest in delta of the Orinoco..... 139
Mangrove tree, stilt roots of, along Orinoco..... 139
Orinoco region, views in the..... 136
Walnut tree, East Indian:
In Barbadoes..... 155
In Haiti..... 157
Willebrandt, Mrs. Mabel W., United States Assistant Attorney General..... 113

○